



The Science of Environmental Justice Working Conference

William Farland, Ph.D.

Deputy Assistant Administrator for Science
Office of Research and Development
U.S. Environmental Protection Agency

May 25, 2004

Research and Development at EPA



- 2,000 employees
- \$700 million budget
- \$100 million extramural research grant program
- 13 lab or research facilities across the U.S.
- Credible, relevant and timely research results and technical support that inform EPA policy decisions

Regions/ORD Science Topic Workshops

- Create cross-EPA science networks addressing Regional priorities
- Explore opportunities to integrate EPA science into tribal, region, state and local decision making
- Understand critical science uncertainties
- Identify needed science products
- Some past workshops— cumulative risk, asthma, environmental indicators, endocrine disruptors

Examples of Science for EJ

- **Air Modeling** – Community Multi-scale Air Quality (CMAQ) model estimates air pollution down to community level
- **PM Health Studies** – particulate matter disproportionately affects health of children and elderly
- **National Children's Study** – long-term (2004-2030) study of influences on children's health and development

More Examples

Border Program

- Lead surveillance in border communities
- Folic acid supplementation programs
- Community-based Lupus study
- Children's multi-path/pesticide study

Tools for Communities

- Framework for Cumulative Risk Assessment
- Integrated Exposure Model for Lead
- EPA Science Inventory